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Yarino

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(54) **FUEL INJECTION APPARATUS FOR
INTERNAL COMBUSTION ENGINE**

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123/511

See application file for complete search history.

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(*) Notice: Subject to any disclaimer, the term of this
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(57) **ABSTRACT**

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(2013.01); **F02M 61/14** (2013.01); **F02M**
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(58) **Field of Classification Search**

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F02B 2023/103; F02B 23/0669; F02M
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A fuel injection valve (21) is provided with a plurality of injection holes (25) arranged at intervals in a lateral direction, when a direction in which a central axis (CL) of the cylinder (2) extends is a vertical direction, so that the plurality of injection holes (25) are directed radially. The plurality of injection holes (25) are configured such that, when an angle formed between two adjacent injection axes, among a plurality of injection axes (Axf) defining the respective injection directions of the injection holes, is an included angle, the included angle (θ_1) formed by two injection axes closest to the central axis of the cylinder (2) is the smallest of all the included angles ($\theta_1, \theta_2, \theta_3$).

1 Claim, 5 Drawing Sheets

